IN THE CLAIMS

This is a complete and current listing of the claims, marked with status identifiers in parentheses. The following listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) Radically crosslinkable liquid composition for producing a polyacrylamide-based hydrogel layer, comprising: ~~characterized in that~~
~~the composition comprises~~ at least one comonomer with reactive linker groups; and
~~at least one optional softener in addition to the~~ a monomer precursor of the polyacrylamide, ~~the~~ a crosslinking agent and ~~the~~ a radical initiatior.

2. (Currently Amended) Composition according to ~~Claim~~ claim 1, wherein
~~characterized in that~~
the monomer precursor of the polyacrylamide is at least one of based on acrylamide methylenbis(meth)acrylamide and~~/or~~ dimethacrylic acid ester.

3. (Currently Amended) Composition according to ~~Claim~~ claim 1~~ and/or 2~~,
~~characterized in that~~wherein
the comonomer with reactive linker groups ~~is selected from the group comprising~~includes at least one of maleic acid anhydride and~~/or~~ glycidyl (meth)acrylate.

4. (Cancelled)

5. (Currently Amended) Composition according to ~~one of the C~~claims 1 ~~to 4~~, wherein
~~characterized in that~~
~~it~~ the composition is available in a polar solvent, and is ~~which can~~ mix~~ed~~able with water.

6. (Currently Amended) Composition according to ~~Claim~~ claim 5, wherein
~~characterized in that~~
the solvent is dimethyl formamide.

7. (Currently Amended) A method, comprising:

using~~Use of~~ a composition according to ~~one of the C~~claim~~s~~ 1~~to~~ ~~6~~ to produce an immobilization layer for biomolecules on a transducer surface.

8. (New) Composition according to claim 1, further comprising at least one softener.

9. (New) Composition according to claim 1, further comprising at least one optional softener.

10. (New) Composition according to claim 2, wherein the comonomer with reactive linker groups is selected from the group comprising maleic acid anhydride and glycidyl (meth)acrylate.

11. (New) Composition according to claim 8, wherein
the softener includes at least one of monoethylene glycol, diethylene glycol and triethylene glycol.

12. (New) Composition according to claim 1, wherein
the softener includes at least one of monoethylene glycol, diethylene glycol and triethylene glycol.

13. (New) Composition according to claim 2, wherein the composition is available in a polar solvent, and is mixable with water.

14. (New) Composition according to claim 13, wherein the solvent is dimethyl formamide.

15. (New) Composition according to claim 3, wherein the composition is available in a polar solvent, and is mixable with water.

16. (New) Composition according to claim 15, wherein the solvent is dimethyl formamide.

17. (New) A method, comprising:

using a composition according to claim 2 to produce an immobilization layer for biomolecules on a transducer surface.

18. (New) A method, comprising:

using a composition according to claim 3 to produce an immobilization layer for biomolecules on a transducer surface.

19. (New) A method, comprising:

using a composition according to claim 5 to produce an immobilization layer for biomolecules on a transducer surface.

20. (New) A method, comprising:

using a composition according to claim 6 to produce an immobilization layer for biomolecules on a transducer surface.